SEQUENCE LISTING

<110> AVIDIS SA

<120> Production of Multimeric Fusion Proteins using a C4bp Scaffold

<130> AHB/FP6155089

<140>
<141>

<150> EP 02292043.3
<151> 2002-08-14

<160> 29

<170> PatentIn Ver. 2.1

<210> 1
<211> 57
<212> PRT
<213> Homo sapiens

<400> 1
Glu Thr Pro Glu Gly Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met
1 5 10 15

Gln Cys Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Glu Gln Leu Glu Leu Gln Arg Asp Ser Ala
35 40 45

Arg Gln Ser Thr Leu Asp Lys Glu Leu
50 55

<210> 2
<211> 57
<212> PRT
<213> Oryctolagus cuniculus

<400> 2
Glu Val Pro Glu Gly Cys Glu Gln Val Gln Ala Gly Arg Arg Leu Met
1 5 10 15

Gln Cys Leu Ala Asp Pro Tyr Glu Val Lys Met Ala Leu Glu Val Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Glu Leu Leu Glu Leu Gln Arg Asp Lys Ala
35 40 45

Arg Lys Ser Ser Val Leu Arg Gln Leu
50 55

<210> 3
<211> 55
<212> PRT

<213> Rattus sp.

<400> 3
Glu Val Pro Lys Asp Cys Glu His Val Phe Ala Gly Lys Lys Leu Met
1 5 10 15

Gln Cys Leu Pro Asn Ser Asn Asp Val Lys Met Ala Leu Glu Val Tyr
20 25 30

Lys Leu Thr Leu Glu Ile Lys Gln Leu Gln Leu Gln Ile Asp Lys Ala
35 40 45

Lys His Val Asp Arg Glu Leu
50 55

<210> 4
<211> 54
<212> PRT
<213> Mus sp.

<400> 4
Glu Ala Ser Glu Asp Leu Lys Pro Ala Leu Thr Gly Asn Lys Thr Met
1 5 10 15

Gln Tyr Val Pro Asn Ser His Asp Val Lys Met Ala Leu Glu Ile Tyr
20 25 30

Lys Leu Thr Leu Glu Val Glu Leu Leu Gln Leu Gln Ile Gln Lys Glu
35 40 45

Lys His Thr Glu Ala His
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<210> 5
<211> 67
<212> PRT
<213> Bos sp.

<400> 5
Glu Tyr Pro Glu Gly Cys Glu Gln Val Val Thr Gly Arg Lys Leu Leu
1 5 10 15

Gln Cys Leu Ser Arg Pro Glu Glu Val Lys Leu Ala Leu Glu Val Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Glu Ile Leu Gln Thr Asn Lys Leu Lys Lys
35 40 45

Glu Ala Phe Leu Leu Arg Glu Arg Glu Lys Asn Val Thr Cys Asp Phe
50 55 60

Asn Pro Glu
65

<210> 6
<211> 57

<212> PRT
<213> Sus scrofa

<400> 6
Glu Tyr Pro Glu Asp Cys Glu Gln Val His Glu Gly Lys Lys Leu Met
1 5 10 15

Glu Cys Leu Pro Thr Leu Glu Glu Ile Lys Leu Ala Leu Ala Leu Tyr
20 25 30

Lys Leu Ser Leu Glu Thr Asn Leu Leu Glu Leu Gln Ile Asp Lys Glu
35 40 45

Lys Lys Ala Lys Ala Lys Tyr Ser Thr
50 55

<210> 7
<211> 56
<212> PRT
<213> Cavia porcellus

<400> 7
Glu Val Pro Glu Glu Cys Lys Gln Val Ala Ala Gly Arg Lys Leu Leu
1 5 10 15

Glu Cys Leu Pro Asn Pro Ser Asp Val Lys Met Ala Leu Glu Val Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Glu Gln Leu Glu Lys Glu Lys Tyr Val Lys
35 40 45

Ile Gln Glu Lys Phe Ser Lys Glu
50 55

<210> 8
<211> 59
<212> PRT
<213> Mus sp.

<400> 8
Glu Val Leu Glu Asp Cys Arg Ile Val Ser Arg Gly Ala Gln Leu Leu
1 5 10 15

His Cys Leu Ser Ser Pro Glu Asp Val His Arg Ala Leu Lys Val Tyr
20 25 30

Lys Leu Phe Leu Glu Ile Glu Arg Leu Glu His Gln Lys Glu Lys Trp
35 40 45

Ile Gln Leu His Arg Lys Pro Gln Ser Met Lys
50 55

<210> 9
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Variant of the
C4bp core protein

<400> 9
Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met Gln Cys Leu Pro Asn
1 5 10 15

Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr Lys Leu Ser Leu Glu
20 25 30

Ile Glu Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser Thr Leu
35 40 45

Asp Lys Glu Leu
50

<210> 10
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Variant of the
C4bp core protein

<400> 10
Glu Thr Pro Glu Gly Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met
1 5 10 15

Gln Cys Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala
35 40 45

Arg Gln Ser Thr Leu Asp Lys Glu Leu
50 55

<210> 11
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Variant of the
C4bp core protein

<400> 11
Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met Gln Cys Leu Pro Asn
1 5 10 15

Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr Lys Leu Ser Leu Glu
20 25 30

Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser Thr Leu

35 40 45

Asp Lys Glu Leu
50

<210> 12
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Variant of the C4bp core protein

<400> 12
Glu Thr Pro Glu Gly Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met
1 5 10 15

Gln Cys Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Ile Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Glu Gln Leu Glu Leu Gln Arg Asp Ser Ala
35 40 45

Arg Gln Ser Thr Leu Asp Lys Glu Leu
50 55

<210> 13
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Variant of the C4bp core protein

<400> 13
Glu Thr Pro Glu Gly Cys Glu Gln Val Leu Thr Gly Lys Arg Leu Met
1 5 10 15

Gln Cys Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Ile Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala
35 40 45

Arg Gln Ser Thr Leu Asp Lys Glu Leu
50 55

<210> 14
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Variant of the

C4bp core protein

<400> 14
Glu Gly Cys Glu Gln Ala Leu Thr Gly Lys Arg Leu Met Gln Cys Leu
1 5 10 15

Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Ile Tyr Lys Leu Ser
20 25 30

Leu Glu Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser
35 40 45

Thr Leu
50

<210> 15
<211> 57
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Variant of the C4bp core protein

<400> 15
Glu Thr Pro Glu Gly Ser Glu Gln Val Leu Thr Gly Lys Arg Leu Met
1 5 10 15

Gln Ser Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Val Tyr
20 25 30

Lys Leu Ser Leu Glu Ile Lys Gln Leu Glu Leu Gln Arg Asp Ser Ala
35 40 45

Arg Gln Ser Thr Leu Asp Lys Glu Leu
50 55

<210> 16
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Variant of the C4bp core protein

<400> 16
Glu Gly Ser Glu Gln Ala Leu Thr Gly Lys Arg Leu Met Gln Ser Leu
1 5 10 15

Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Ile Tyr Lys Leu Ser
20 25 30

Leu Glu Ile Glu Gln Leu Glu Leu Gln Arg Asp Ser Ala Arg Gln Ser
35 40 45

Thr Leu Asp Lys

50

<210> 17
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Flexible linker

<400> 17
Gly Gly Gly Gly Ser
1 5

<210> 18
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Flexible linker

<400> 18
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10

<210> 19
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Flexible linker

<400> 19
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 20
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Flexible linker

<400> 20
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
1 5 10 15

Gly Gly Gly Ser

20

<210> 21
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Thrombopoeitin agonist peptide

<400> 21
Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
1 5 10

<210> 22
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Downstream box peptide sequence

<400> 22
Met Ala Ser Met Asn His Lys Gly Ser
1 5

<210> 23
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 23
cccgcggatc cgagaccccc gaaggctgtg a 31

<210> 24
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 24
ccccggaatt cttattatag ttctttatcc aaagtgg 37

<210> 25
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Sequence
encoding a 6xHistidine tag

<400> 25
catatgcggg gttctcatca tcatcatcat catggtctgg ttccgcgtgg atcc 54

<210> 26
<211> 74
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Amino acid
sequence produced by plasmid pAVD 93

<400> 26
Met Arg Gly Ser His His His His His His Gly Leu Val Pro Arg Gly
1 5 10 15

Ser Glu Thr Pro Glu Gly Cys Glu Gln Val Leu Thr Gly Lys Arg Leu
20 25 30

Met Gln Cys Leu Pro Asn Pro Glu Asp Val Lys Met Ala Leu Glu Val
35 40 45

Tyr Lys Leu Ser Leu Glu Ile Glu Gln Leu Glu Leu Gln Arg Asp Ser
50 55 60

Ala Arg Gln Ser Thr Leu Asp Lys Glu Leu
65 70

<210> 27
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 27
ggggccccca tatggcgcag tatgaagatg gtaaacag 38

<210> 28
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 28
ggggaattct taggatccag aacctttttt ctcggacaga tatttcac 48

<210> 29
<211> 303
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Promoter and
C4bp coding region in pAVD77

<400> 29
gatctcgatc ccgcgaaatt aatacgactc actataggga gaccacaacg gtttccctct 60
agaaataatt ttgtttaact ttaagaagga gatatacata tggctagcat gaatcacaaa 120
ggatccgaga ccccccgaagg ctgtgaacaa gtgctcacag gcaaaagact catgcagtgt 180
ctcccaaacc cagaggatgt gaaaatggcc ctggaggtat ataagctgtc tctggaaatt 240
gaacaactgg aactacagag agacagcgca agacaatcca ctttggataa agaactataa 300
taa 303